

AMENDMENTS TO THE CLAIMS

Please replace all prior versions of the claims with the following listing of the claims. Please note that in the amendments to the claims, deletions are indicated by strikethrough (e.g. ~~deletion~~) and additions to the claims are underlined (e.g. addition).

1. (Currently Amended) A dental implant for supporting a dental restoration in a jawbone, the dental implant comprising:

a body extending along a longitudinal axis and having a coronal end and an apical end, the coronal end forming, in part, an abutment surface that extends generally transverse to the longitudinal axis and the apical end, in part, forming an annular surface that extends generally transverse to the longitudinal axis;

an external surface extending between the abutment surface and the annular surface and generally facing away from the longitudinal axis of the dental implant, the external surface including a threaded surface that extends substantially to the apical end of the body;

a first inner surface concentric with the external surface, the first inner surface generally facing toward the longitudinal axis of the dental implant, at least a portion of the first inner surface including internal grooves; and

a second inner surface that is joined to the first inner surface along an outer circumference of the second inner surface and extends generally transverse to the longitudinal axis of the dental implant and faces in a generally apical direction.

~~Bone-anchoring element comprising a tubular implant to be inserted into bone tissue for anchoring a prosthetic component (TK) located outside the bone, a component which is open at one end thereof intended to be inserted into the bone tissue while the other end intended to be directed towards portions located externally of the bone tissue is closed by a compact impermeable end wall portion with attachment for the prosthetic component on the outside thereof the lumen extending from the open end through the total implant to the end wall portion wherein the implant has a compact impermeable side wall with a stop mark for defining an end position for the implant at insertion into the~~

bone tissue, and that the lumen of the implant also includes a cavity in the end wall portion open towards the lumen.

2. (~~Currently Amended~~) ~~Bone anchoring element~~ The dental implant according to claim 1, further comprising a stop mark disposed along the external surface for defining an end position for the dental implant at insertion into the jawbone wherein the stop mark is formed by a shoulder which can be engaged with the bone tissue.

3. (~~Currently Amended~~) ~~Bone anchoring element~~ The dental implant according to claim 2 wherein the shoulder is formed by the end wall portion.

4. (~~Currently Amended~~) ~~Bone anchoring~~ The dental implant according to claim 3, wherein the shoulder is formed toward the coronal end at said one end.

5. (~~Canceled~~)

6. (~~Currently Amended~~) ~~Bone anchoring element~~ The dental implant according to claim 1 wherein the threaded surface includes have double threading entrances.

7. (~~Currently Amended~~) ~~Bone anchoring element~~ The dental implant according to claim 1 wherein the outer and/or first inner surface of the dental implant is roughened side wall has micro topography.

8. (~~Canceled~~)

9. (~~Canceled~~)

10. (~~Currently Amended~~) ~~Bone anchoring~~ The dental implant according to claim 1 wherein the length (height) of the implant is substantially equal to the diameter.

11. (~~Currently Amended~~) ~~Bone anchoring element~~ The dental implant according to claim 1 wherein the implant has a diameter, which is larger than its length (height).

12 – 16. (~~Canceled~~)

17. (~~New~~) The dental implant according to claim 1, wherein the internal grooves on the first inner surface form a threaded surface.

18. (~~New~~) The dental implant according to claim 17, wherein threads on the threaded surface of the outer surface and threads on the threaded surface of the first inner surface are synchronous.

19. (~~New~~) The dental implant according to claim 18, wherein the threads of the first inner surface are micro threads.

20. (New) The dental implant according to claim 1, wherein the internal grooves are micro threads.

21. (New) The dental implant according to claim 1, in combination with a trephine drill.

22. (New) The dental implant according to claim 1, wherein the internal grooves extend in a vertical direction parallel to the longitudinal axis.

23. (New) A dental implant for supporting a dental restoration in a jawbone, the dental implant comprising:

- a body extending along a longitudinal axis and having a coronal end and an apical end, the coronal end forming, in part, an abutment surface that extends generally transverse to the longitudinal axis and the apical end, in part, forming an annular surface that extends generally transverse to the longitudinal axis;

- an external surface extending between the abutment surface and the annular surface and generally facing away from the longitudinal axis of the dental implant, the external surface including threads that extends along the external surface in a longitudinal direction;

- a first inner surface concentric with the external surface, the first inner surface generally facing toward the longitudinal axis of the dental implant, at least a portion of the first inner surface including grooves that form a grooved surface; and

- a second inner surface that is joined to the first inner surface along an outer circumference of the second inner surface and extends generally transverse to the longitudinal axis of the dental implant and faces in a generally apical direction;

- wherein the threads on the external surface extends longitudinally towards the apical end of the dental implant and the grooved surface extends longitudinally from the apical end toward the coronal end of the dental implant, wherein at least a portion of the threads on the external surface overlap at least a portion of the grooves on the first inner surface in the longitudinal direction.

24. (New) The dental implant according to claim 23, further comprising a stop mark disposed along the external surface for defining an end position for the dental implant at insertion

into the jawbone wherein the stop mark is formed by a shoulder which can be engaged with the bone tissue.

25. (New) The dental implant according to claim 24 wherein the shoulder is formed by the end wall portion.

26. (New) The dental implant according to claim 25, wherein the shoulder is formed toward the coronal end

27. (New) The dental implant according to claim 23 wherein the threads on the external surface includes double threading.

28. (New) The dental implant according to claim 23 wherein the outer and/or first inner surface of the dental implant is roughened.

29. (New) The dental implant according to claim 23 wherein the length of the implant is substantially equal to the diameter.

30. (New) The dental implant according to claim 23 wherein the implant has a diameter, which is larger than its length.

31. (New) The dental implant according to claim 23, wherein grooves on the first inner surface form a threaded surface.

32. (New) The dental implant according to claim 31, wherein threads on the threaded surface of the outer surface and threads on the threaded surface on the first inner surface are synchronous.

33. (New) The dental implant according to claim 32, wherein the threads on the first inner surface are micro threads.

34. (New) The dental implant according to claim 23, wherein the grooves are micro threads.

35. (New) The dental implant according to claim 23, in combination with a trephine drill.

36. (New) The dental implant according to claim 23, wherein the grooves extend in a vertical direction parallel to the longitudinal axis.